

AMENDMENTS TO THE CLAIMS:

The listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF THE CLAIMS

1. (Currently Amended) In a portable electric arc welder having a power source creating a DC voltage between two output terminals, said welding having a weight of less than 100 pounds and a rating of less than 300 amperes, a voltage feedback circuit to control the voltage between said terminals by a reference voltage signal, and welding output leads for performing a welding operation, the improvement comprising: a battery charger integrated with said welder and connected to said terminals, said battery charger having output leads connectable to a battery having an output voltage of at least about 12 volts DC, said battery charger further having a changing-charging sequence circuit operable by an input enable signal and controlled by conditions of said battery being charged to generate a voltage and/or a current to charge said battery; and, a manual selector switching on said welder and movable between a first position connecting said terminals to said welding output leads and a second position creating said battery charger input enable signal.
2. (Original) The improvement as defined in claim 1 wherein said power source is a constant voltage source.
3. (Original) An improvement as defined in claim 2 wherein a welding gun with a weld trigger is connected to one of said welding output leads and a circuit for operating said power source when both said trigger is closed and said selector switch is in said first position.
4. (Original) An improvement as defined in claim 1 wherein a welding gun with a weld trigger is connected to one of said welding output leads and a circuit for operating said power source when both said trigger is closed and said selector switch is in said first position.
5. (Original) The improvement as defined in claim 2 wherein said welder has a

wire feeder operable when said selector switch is in said first position.

6. (Original) The improvement as defined in claim 1 wherein said welder has a wire feeder operable when said selector switch is in said first position.

7. (Original) A portable electric arc welder having a power source creating a DC voltage between two output terminals to drive a welding device and an integrated, internal battery charger with an input stage and an output stage connectable to a battery to be charged, and a selectable switch having a first position connecting said terminals to said welding device and a second position connecting said terminals to said integrated battery charger at a selected location.

8. (Original) A portable electric arc welder as defined in claim 7 wherein said power source is a constant voltage source.

9. (Original) A portable electric arc welder as defined in claim 7 wherein said selectable switch has a third position, an integral device for actuating a starter motor, said actuating device connected to at least one of said output terminals by a connector and a circuit to close said connector when said selector switch is in said third position to operate said starter motor of an internal combustion engine.

10. (Original) A portable welder as defined in claim 9 wherein said power source has a rating of less than 300 amperes.

11. (Original) A portable welder as defined in claim 7 wherein said power source has a rating of less than 300 amperes.

12. (Currently Amended) A portable welder as defined in claim 14-7 including a spark inhibitor comprising a resistor in one of said output leads with an impedance of at least about .3 meg ohms and connected in parallel with a shunt switch, a current sensor for said lead and a circuit to close said shunt switch when said current sensor senses a current below a given value, said value substantially greater than the rated current of said power source but less than twice the rated current of said power

source.

13. (Currently Amended) A portable welder as defined in claim 13-8 including a spark inhibitor comprising a resistor in one of said output leads with an impedance of at least about .3 meg ohms and connected in parallel with a shunt switch, a current sensor for said lead and a circuit to close said shunt switch when said current sensor senses a current below a given value, said value substantially greater than the rated current of said power source but less than twice the rated current of said power source.